Fig. 1A

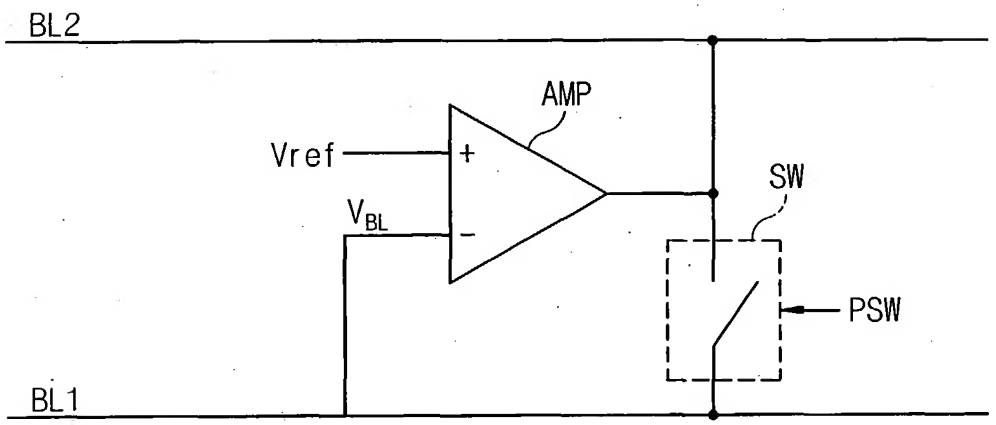

Fig. 1B

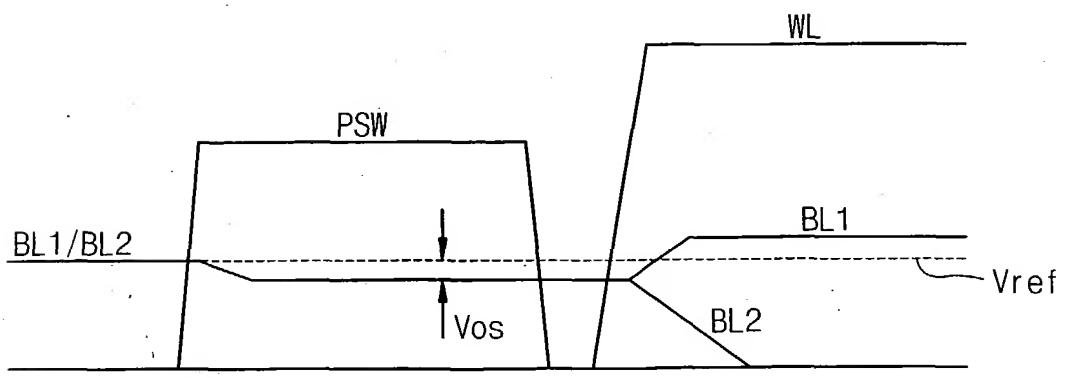

Fig. 2

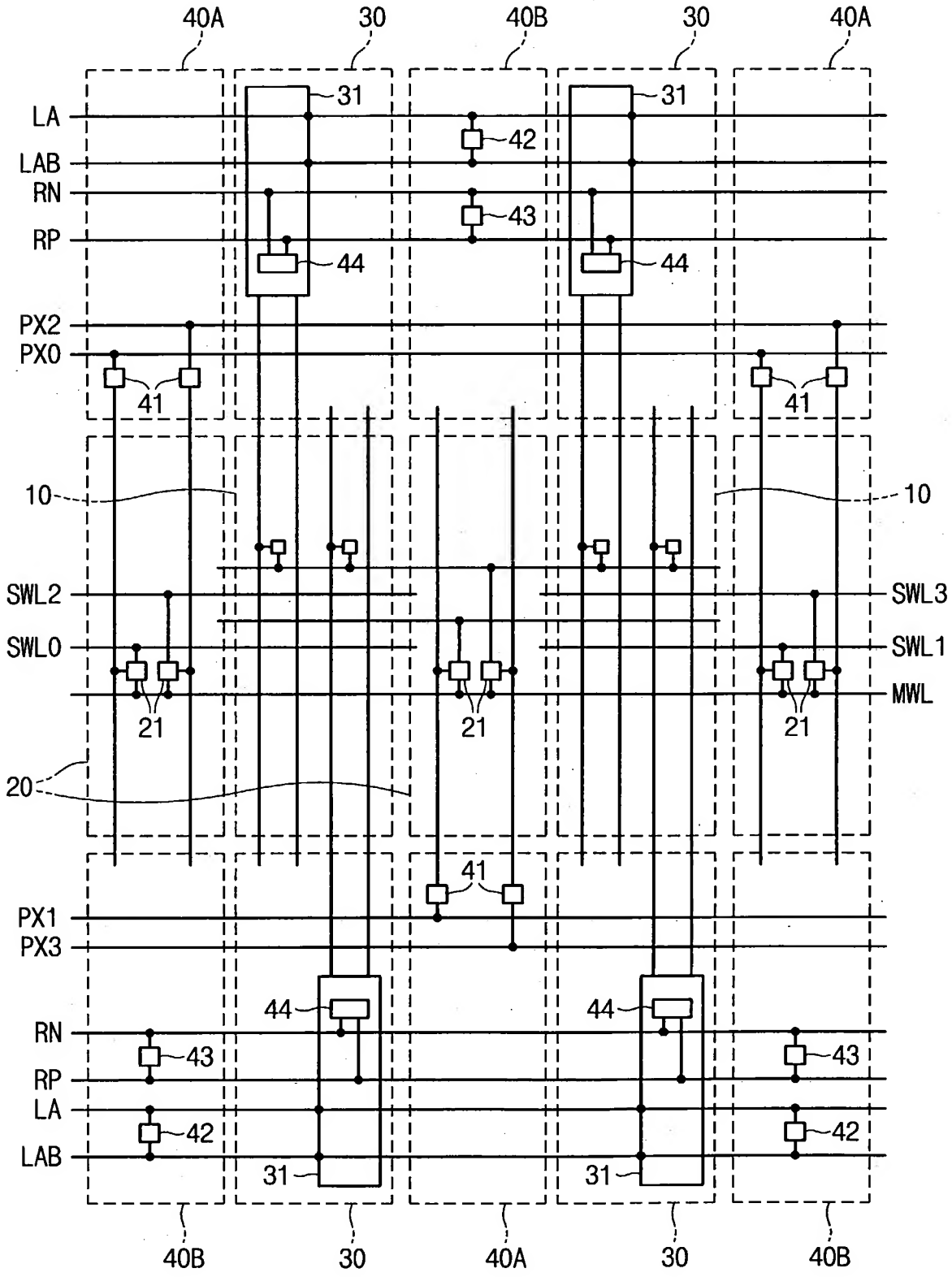
40A
30
40B
30
40A
31
31
LA
LAB
RN
RP
42
43
44
44
PX2
PX0
41
41
10
10
SWL2
SWL0
SWL3
SWL1
MWL
21
21
21
20
41
PX1
PX3
44
44
RN
RP
LA
LAB
43
42
43
42
31
31
40B
30
40A
30
40B

Fig. 3

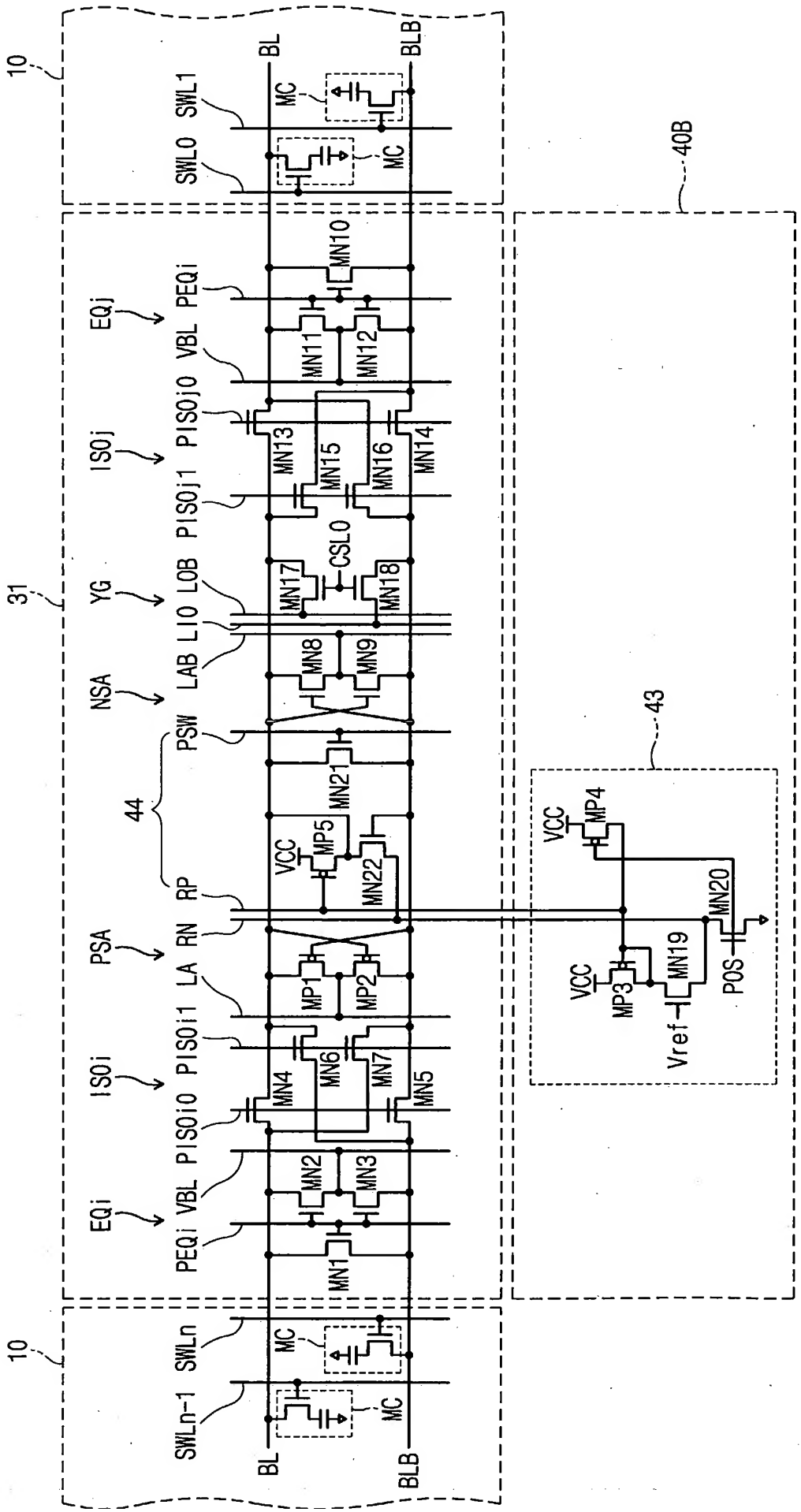
10
SWL1
SWL0
MC
BL
BLB
40B
31
EQj
ISOj
YG
NSA
PSA
ISOi
EQi
PEQi
VBL
PISOj0
PISOj1
LOB
LIO
LAB
PSW
RP
RN
LA
PISOi1
PISOi0
CSL0
MN10
MN11
MN12
MN13
MN14
MN15
MN16
MN17
MN18
MN8
MN9
MN21
MN22
MP5
MP1
MP2
MN4
MN6
MN7
MN5
MN2
MN3
MN1
VCC
44
43
MP4
MP3
MN19
MN20
POS
Vref
SWLn
SWLn-1

Fig. 4

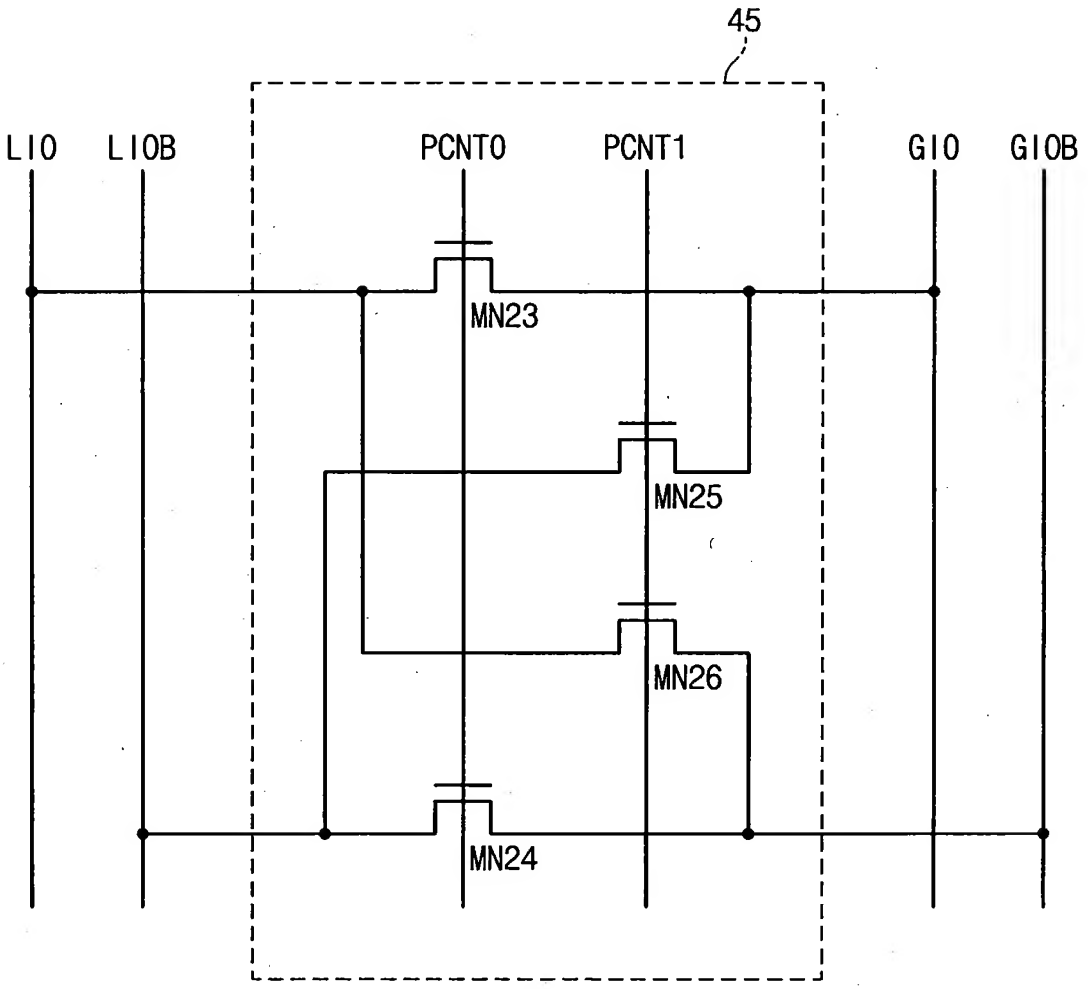

Fig. 5

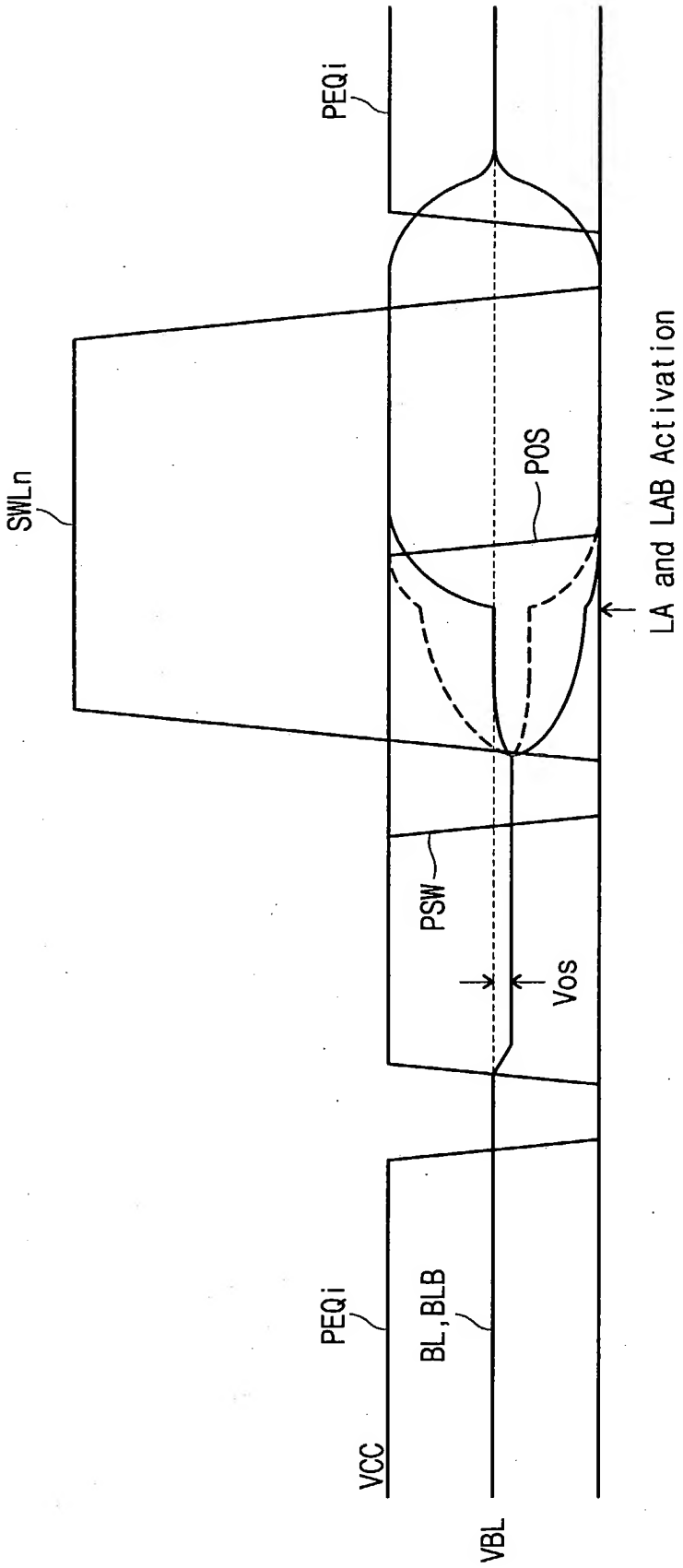
PEQi
SWLn
POS
LA and LAB Activation
PSW
Vos
PEQi
BL, BLB
VCC
VBL

Fig. 6A

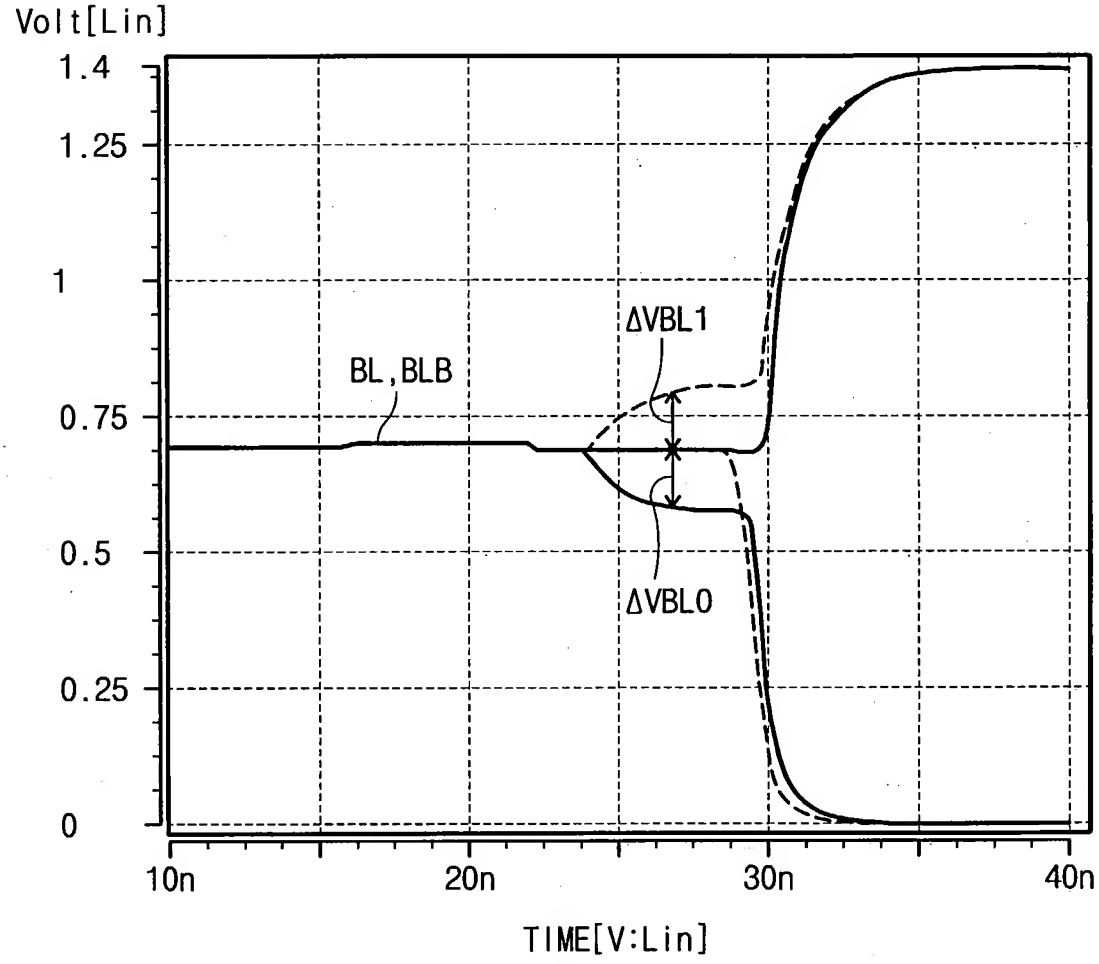
Volt[Lin]
1.4
1.25
1
0.75
0.5
0.25
0
BL, BLB
ΔVBL1
ΔVBL0
10n
20n
30n
40n
TIME[V:Lin]

Fig. 6B

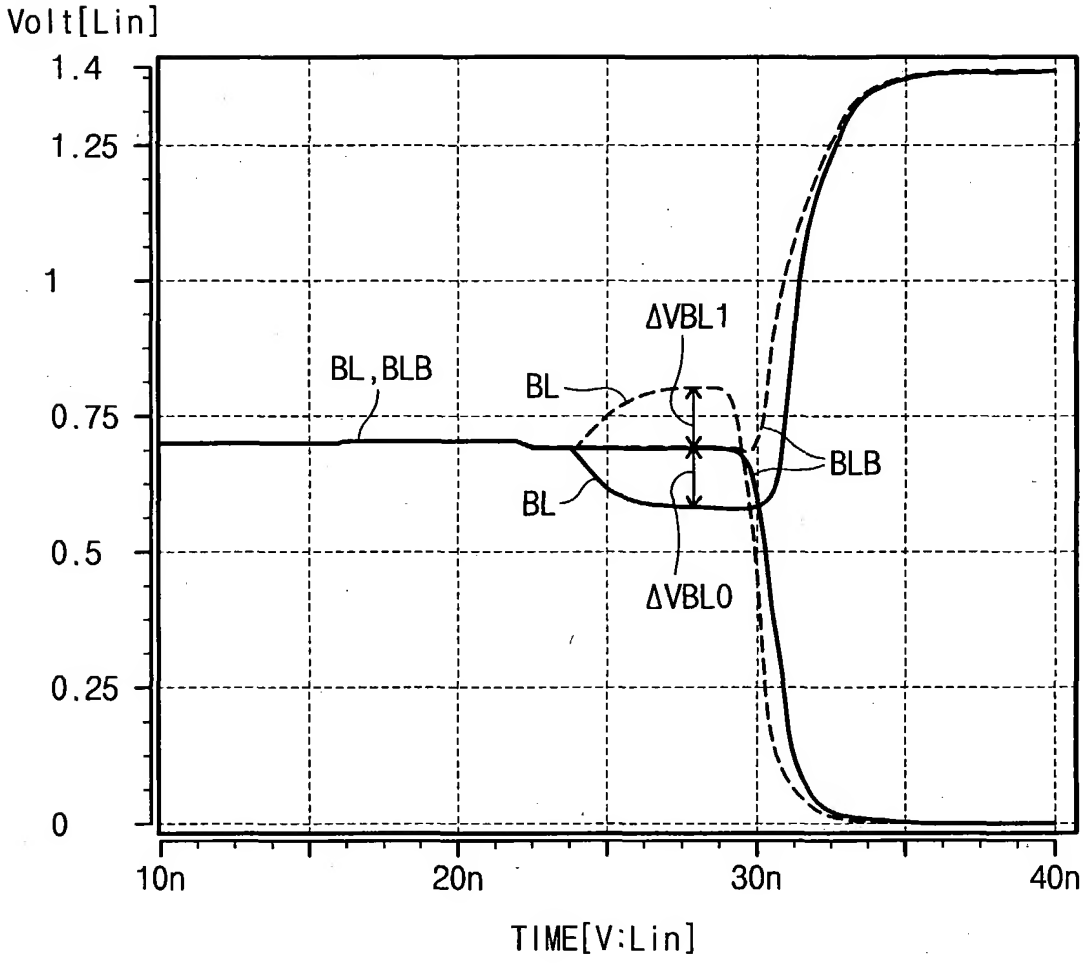
Volt[Lin]
1.4
1.25
1
0.75
0.5
0.25
0
10n
20n
30n
40n
TIME[V:Lin]
BL,BLB
BL
BL
BLB
ΔVBL1
ΔVBL0

Fig. 7A

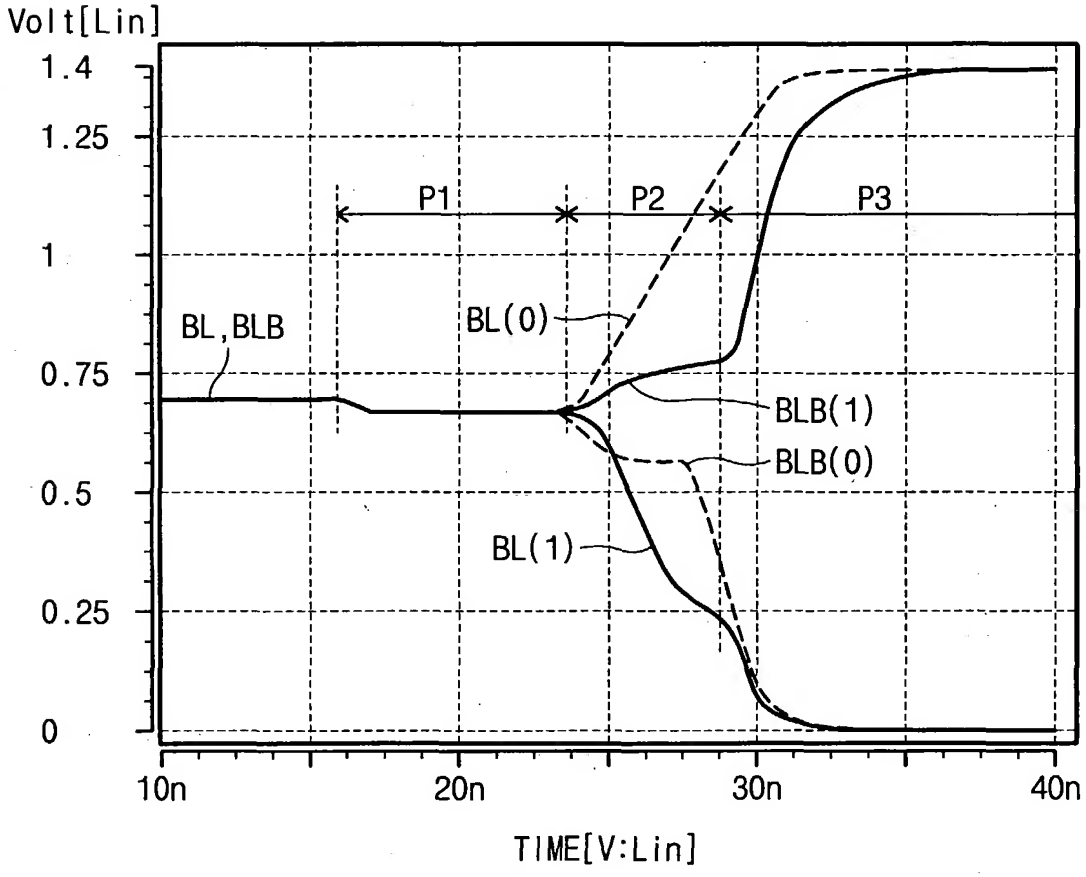
Volt[Lin]
1.4
1.25
1
0.75
0.5
0.25
0
P1
P2
P3
BL,BLB
BL(0)
BLB(1)
BLB(0)
BL(1)
10n
20n
30n
40n
TIME[V:Lin]

Fig. 7B

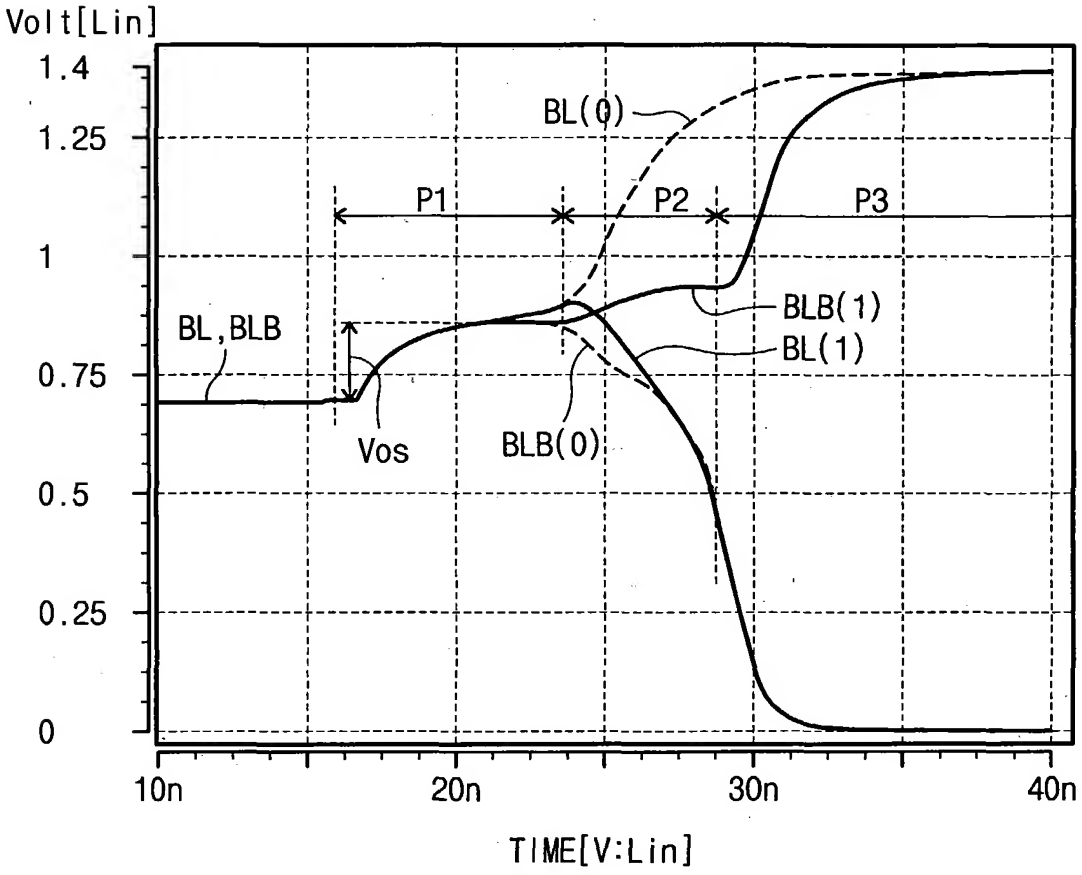
Volt[Lin]
1.4
1.25
1
0.75
0.5
0.25
0
BL(0)
P1
P2
P3
BL,BLB
BLB(1)
BL(1)
Vos
BLB(0)
10n
20n
30n
40n
TIME[V:Lin]

Fig. 7C

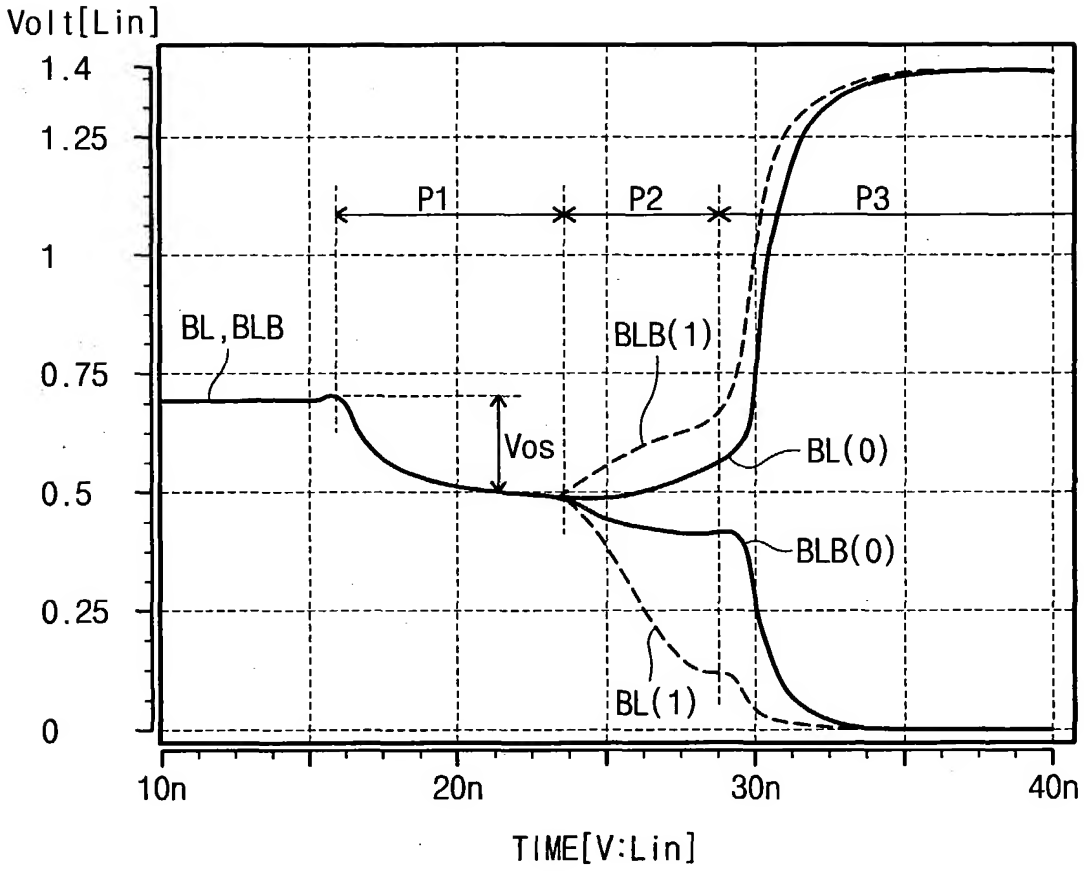
Volt[Lin]
1.4
1.25
1
0.75
0.5
0.25
0
P1
P2
P3
BL,BLB
BLB(1)
Vos
BL(0)
BLB(0)
BL(1)
10n
20n
30n
40n
TIME[V:Lin]

Fig. 8A

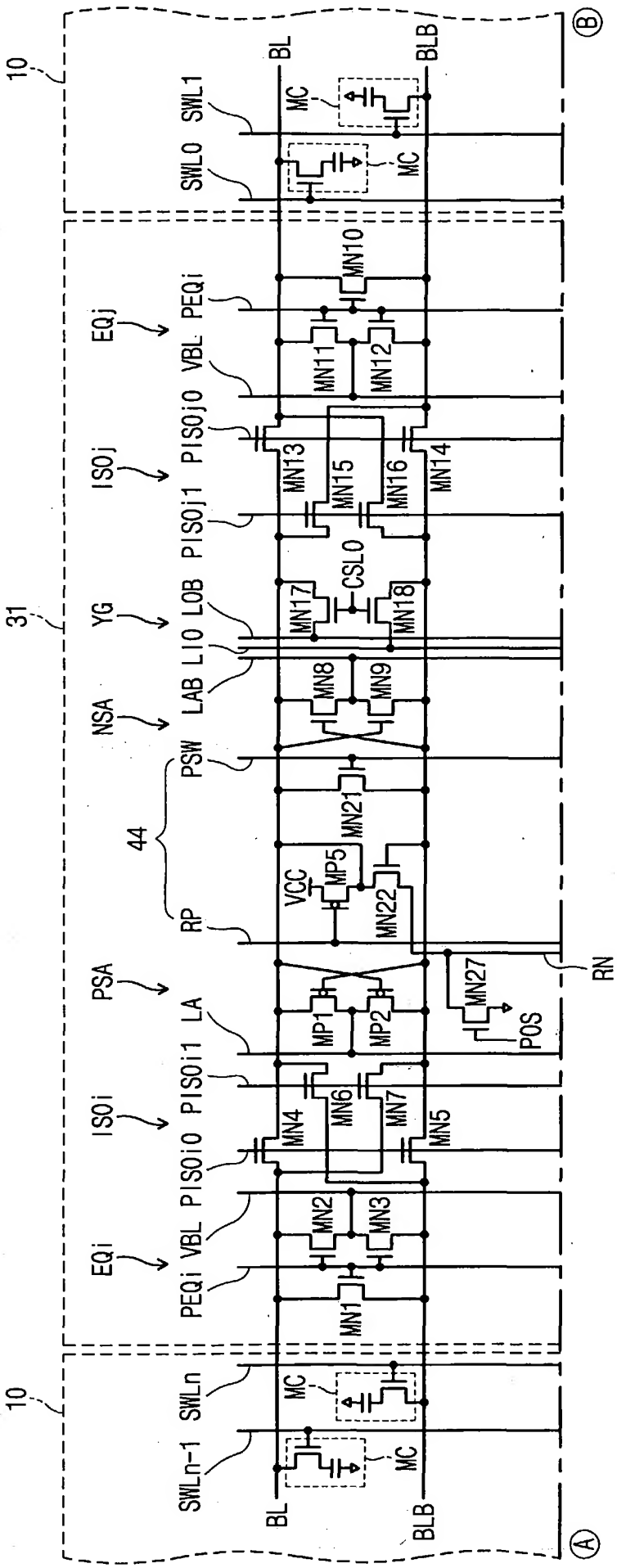

Fig 8
FIG 8A
FIG 8B

Fig. 8B

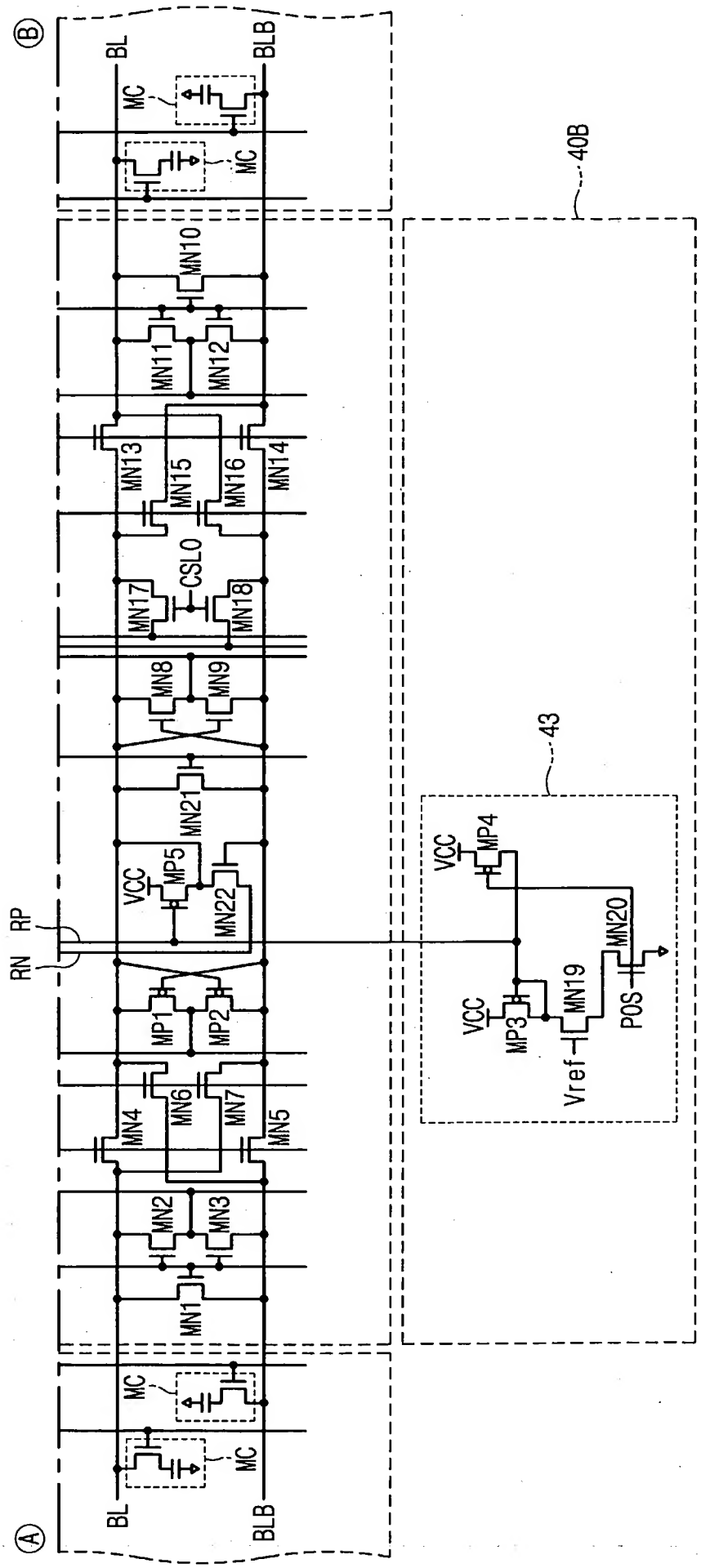
Ⓑ
BL
BLB
MC
MC
40B
MN10
MN11
MN12
MN13
MN15
MN16
MN14
CSL0
MN17
MN18
MN8
MN9
43
MN21
VCC
MP5
MN22
RP
RN
VCC
MP4
MN20
VCC
MP3
MN19
POS
Vref
MP1
MP2
MN4
MN6
MN7
MN5
MN2
MN3
MN1
MC
MC
Ⓐ
BL
BLB

Fig. 9

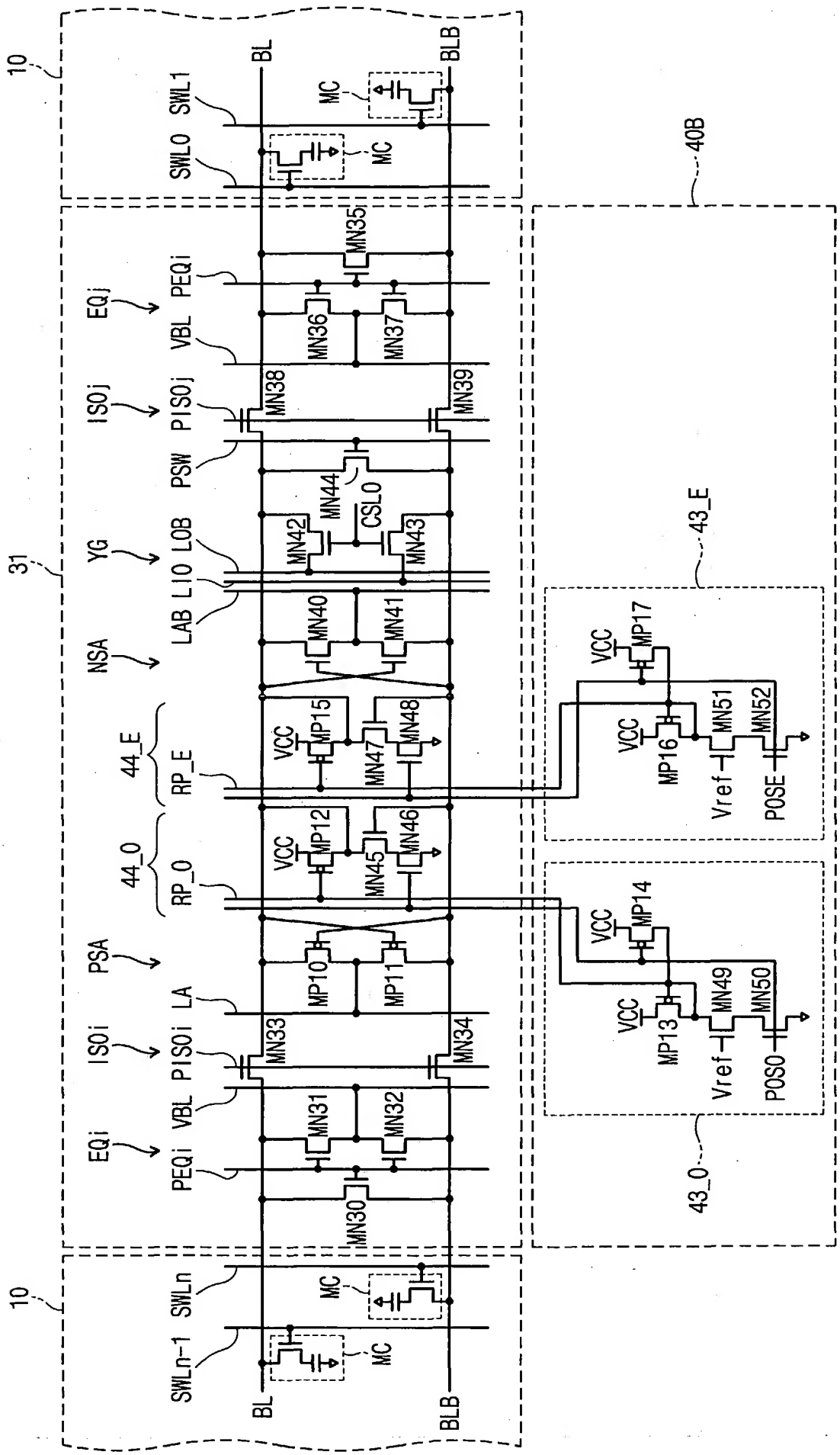
10
SWL1
SWL0
BL
BLB
MC
40B
31
EQj
PEQi
VBL
ISOj
PISOj
PSW
YG
LOB
LIO
LAB
NSA
44_E
RP_E
44_0
RP_0
PSA
LA
ISOi
PISOi
EQi
PEQi
VBL
MN35
MN36
MN37
MN38
MN39
MN44
CSL0
MN42
MN43
MN40
MN41
MP15
MN47
MN48
MP12
MN45
MN46
MP10
MP11
MN33
MN34
MN31
MN32
MN30
43_E
43_0
VCC
MP17
MP16
MN51
MN52
Vref
POSE
MP14
MP13
MN49
MN50
POSO
SWLn
SWLn-1

Fig. 10

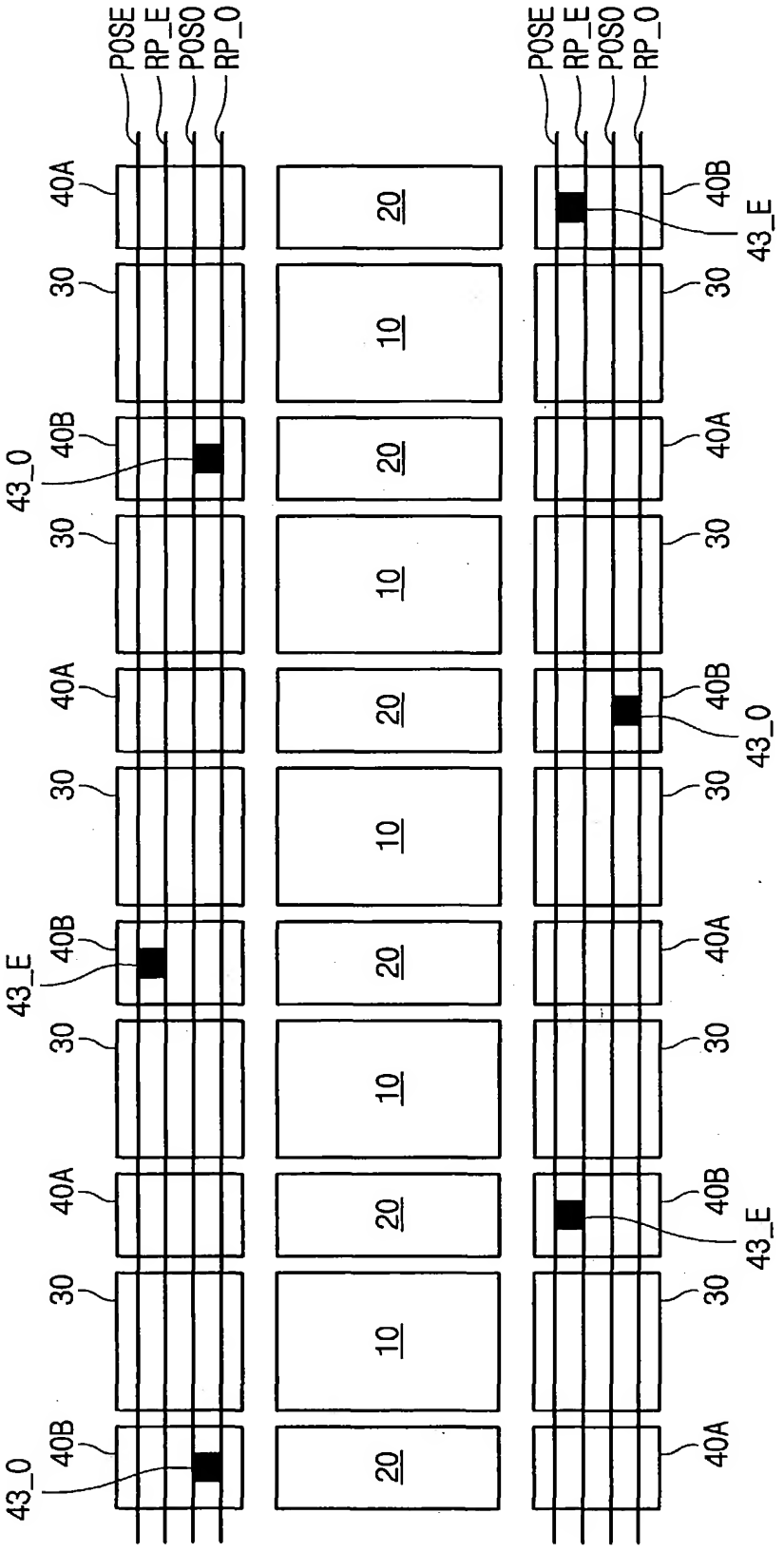

Fig. 11A

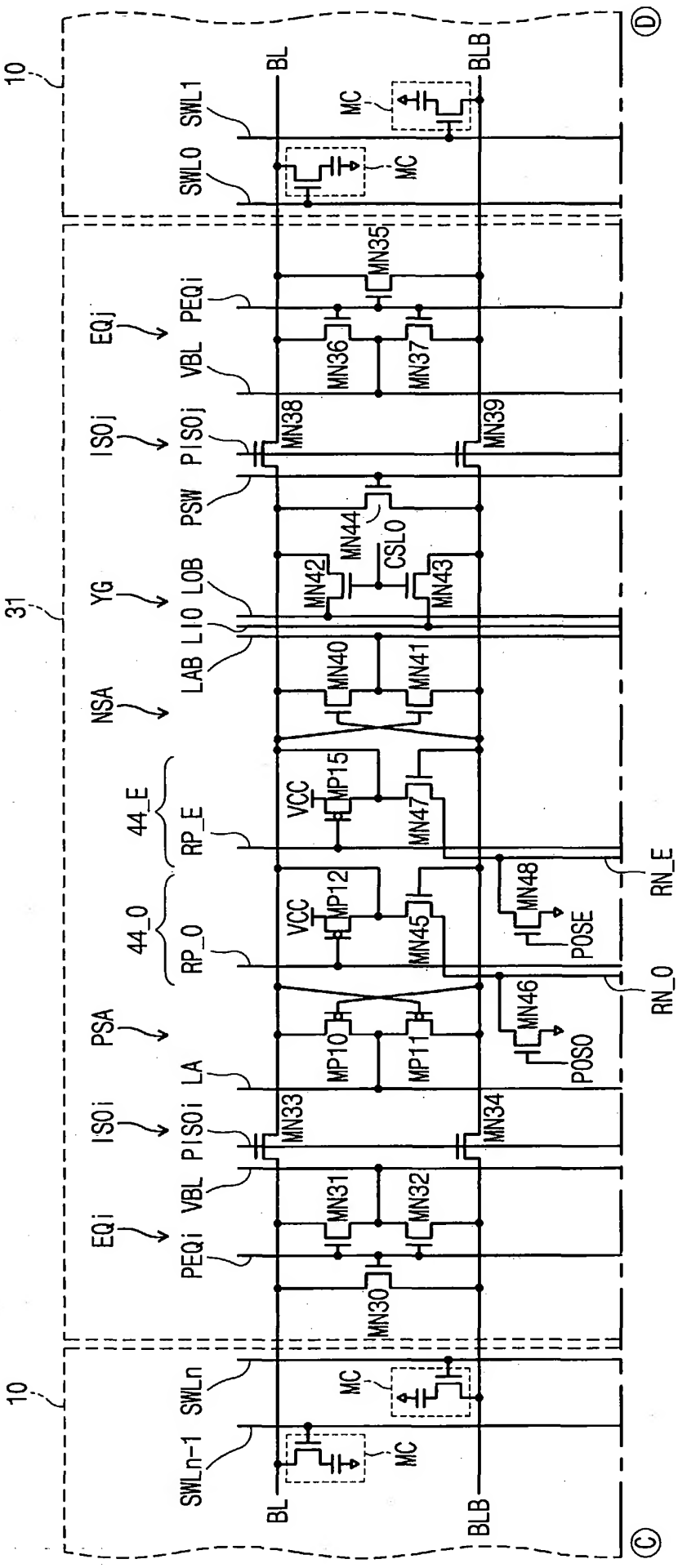

FIG 11

FIG 11A
FIG 11B

Fig. 11B

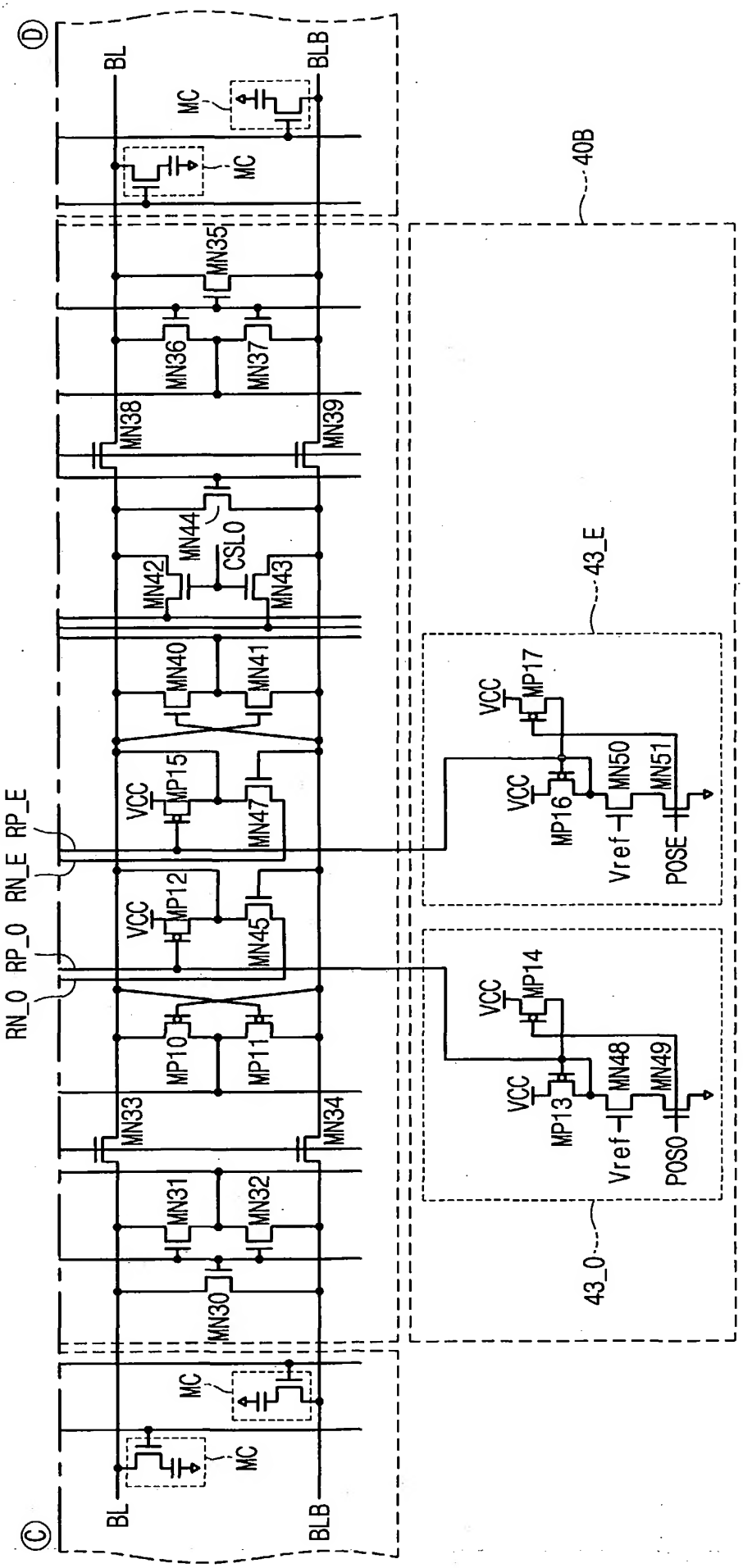
Ⓓ
Ⓒ
BL
BLB
MC
40B
43_E
43_0
MN35
MN36
MN37
MN38
MN39
MN44
CSL0
MN42
MN43
MN40
MN41
VCC
MP15
MN47
MP12
MN45
RP_E
RN_E
RP_0
RN_0
MP10
MP11
MN33
MN34
MN31
MN32
MN30
MP17
MP16
MN50
MN51
Vref
POSE
MP14
MP13
MN48
MN49
POS0

Fig. 12